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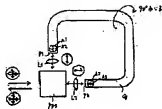
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(54) POLARIZED LIGHT ROTATING MIRROR

(57)Abstract:

PURPOSE: To rotate incident light, which has a wavelength in a wide range and arrives in an optional direction, by 90° and reflect it by simple constitution by composing the mirror of a polarized light separator and one optical waveguide which holds a polarizing direction.

CONSTITUTION: The incident light in a polarized state when made incident from the incidence surface of the polarized light separator PBS is split by the polarized light separator PBS into two orthogonal polarized light components, which are made incident on end surfaces P1 and P2 of an optical waveguide G. At this time, the two polarized light components are both parallel to the main axis A1 of the optical waveguide G. The two incident light components are guided while having the polarized directions held to the direction of the main axis A1. Then both the two polarized components have the polarized directions rotated by 90° because of the twisting of the optical waveguide G. They are guided while having their polarized directions held to the axis A1, and projected from end surfaces from the end surfaces at the time of the incidence, and multiplexed by the polarized light separator PBS and projected from said incidence surface. At this time, the polarizing directions of reflected light is rotated by 90° from the polarizing direction of the incident light.



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